

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/076120 A1

- (51) International Patent Classification⁷: **G06F 3/06**, H04L 29/06
- (21) International Application Number:
PCT/EP2004/053237
- (22) International Filing Date: 2 December 2004 (02.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0401246.4 21 January 2004 (21.01.2004) GB
- (71) Applicant (for all designated States except US): **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, NY 10504 (US).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **NICHOLSON, Robert, Bruce** [GB/GB]; 17 Worthing Road, Southsea Hampshire PO5 2RH (GB). **O'ROURKE, Nicholas, Michael** [GB/GB]; 33 Desborough Road, Eastleigh Hampshire SO50 5NY (GB).
- (74) Agent: **WILLIAMS, Julian, David**; IBM United Kingdom Limited, Intellectual Property Law, Hursley Park, Winchester Hampshire SO21 2JN (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD AND APPARATUS FOR CONTROLLING ACCESS TO LOGICAL UNITS**

(57) Abstract: A method and apparatus are provided for controlling access to logical units, a logical unit being an addressable entity that accept commands. A plurality of logical units are accessible by one or more ports, a port being an addressable entity that sends commands. A communication means which may be a storage area network (SAN) (102, 202) provides access to the plurality of logical units by the one or more ports. One or more ports that require access to the same logical units are grouped in a named set (301, 302, 303) in a first location. The named set (301, 302, 303) is associated (300) in a subsequent location with selected logical units (304) thereby controlling the access to the logical units. Identification information for the ports in a named set is extracted at the subsequent location by referencing the named set. The sets can be physically defined, for example, by switch zoning, or logically defined by logically grouping port names.

WO 2005/076120 A1